

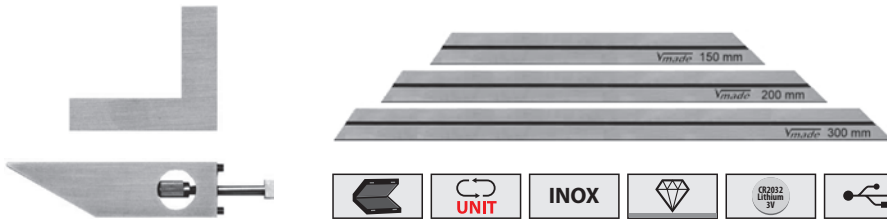
Universal Bevel Protractors

★★★★★ DIGI PLUS-LINE® Electr. Digital Universal Bevel Protractor Set

- with USB data output
- with 3 blades (150 / 200 / 300 mm), 90° square and angle stop
- stainless steel, hardened and fine ground
- rugged ABS-plastic housing, multifunctional display
- with fine adjustment for easy adjustment and fixing device for the blade
- large LCD display with clear reading
- two display lines, resolution in 1. line with 0.005° and in 2. line with min. 10"
- preset to 360° / 180° / 90°, two measuring directions selectable
- On/Off button, mode-button, set-button, zero setting at any position
- operation temperature 0°C ~ +40°C, storage temperature -10°C ~ +60°C
- incl. 1x 3 V battery (type CR2032, art. no.: 2002093), with operation manual

Option

- data transfer via cable, art.-no. 2420192, see page 304



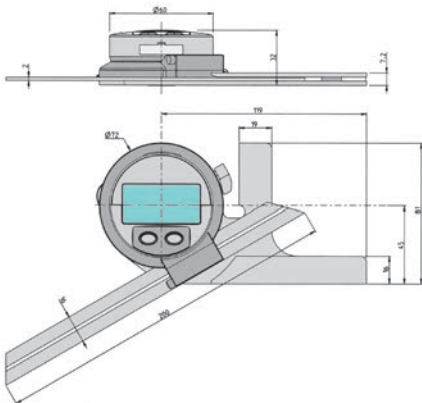
ART NO	length of blade mm	↔	👁	↔ max.	KG	ART NO CC
320100	150 / 200 / 300	360° / 2x 180° / 4x 90°	0.005° / 10"	5'	0.350	3294022

★★★★★ DIGI PLUS-LINE® Electr. Digital Univ. Bevel Protractor • IP51

- with data output Opto RS232
- spraywater resistant acc. to DIN 40050 / IEC 60529
- base plate and rulers stainless, hardened
- robust ABS plastic housing, multi-functional display
- with fine adjustment for easy adjustment and quick clamping of the measuring rail
- large LCD display with clear reading
- resolution 1 arc minute or decimal 0.01 degree angle
- preset values in 360° / 180° / 90°, two selectable measuring directions
- On/Off button, Mode button, Set button, zero setting at any position
- operating temperature 0°C ~ +40°C, storage temperature -10°C ~ +60°C
- incl. 1x 3 V battery (type CR2032, art. no.: 2002093), with operation manual

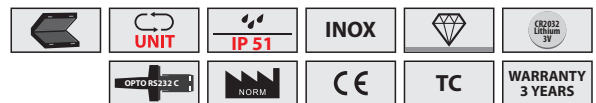
Option

- data transfer via cable, art.-no. 2002610, see page 304



Option:
Opto RS232 data cable duplex

Accessories can be found on page 205



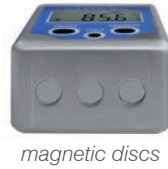
ART NO	length of blades mm	↔	👁	↔ max.	KG	ART NO CC
320150	150	360° / 2 x 180° / 4 x 90°	0.01° / 1'	2'	0.370	3294020
320151	200	360° / 2 x 180° / 4 x 90°	0.01° / 1'	2'	0.375	3294020
320152	300	360° / 2 x 180° / 4 x 90°	0.01° / 1'	2'	0.380	3294020

Universal Bevel Protractors, Anglemeters



Electr. Digital Angle-Sensor „Bevel-Box“ and „Level-Box“ • IP54

- dust- and splash water proof acc. to DIN 40050 / IEC 60529
- ideal device for angle adjustment, can be used for many purposes
- rugged metal housing
- large LCD display with clear reading, digit height 10 mm
- with 3 magnetic discs in the bottom of the housing
- with On/Off-, zero- and ABS button, data hold function
- art.-no. 32 0011 added with a vial on top of the housing
- incl. 1x 3 V battery (type CR2032, art.-no.: 2002093), and operation manual

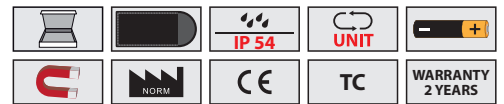


ART No	Angle Range	Resolution	Accuracy	Dimensions (mm)	Weight (KG)
320010	± 180°	0.1°	± 0.1°	50 x 50 x 32	0.160
320011	± 180°	0.1°	± 0.1°	50 x 63 x 32	0.180



Electr. Digital Angle-Sensor with 90° swiveling LCD display • IP54

- dust- and splash water proof acc. to DIN 40050 / IEC 60529
- ideal device for angle adjustment, can be used for many purposes
- large LCD display, with clear reading, digit height 8 mm
- LCD display swivelling up to 90°, with direction indicating vial in the display
- with magnetic V-base
- On/Off button and data hold function
- incl. 2x 1.5 V batteries (type AAA, art.-no.: 609283), operation manual

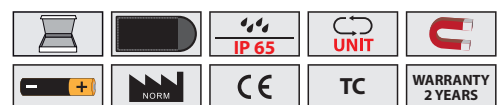


ART No	Angle Range	Resolution	Accuracy	Dimensions (mm)	Weight (KG)
320015	± 180°	0.1°	± 0.1°	55 x 57 x 32	0.130



Electr. Digital Protractor • IP65

- water- and coolant proof acc. to DIN 40050 / IEC 60529
- ideal device for precise leveling and measuring of flatness and squareness, can be used for many purposes
- sturdy housing with aluminium V-prism at top and bottom side
- art.-no. 320016 additionally with magnetic discs in the V-bottom
- large LCD display, with clear reading, digit height 9 mm
- with acoustic signal and backlight
- autom. 180° rotating display, by turning up-side down
- with data hold function, ABS system, with easy to handle self calibration
- On/Off- and zero button, zero setting at any position
- incl. 2x 1.5 V battery (type AAA, art.-no.: 609283), with operation manual

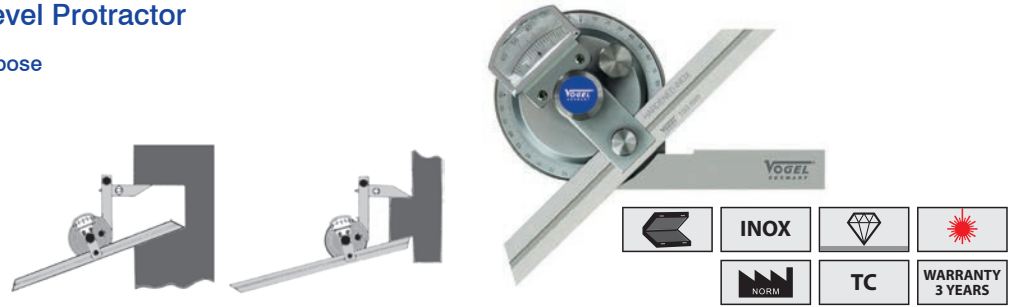


ART No	Angle Range	Resolution	Accuracy	Dimensions (mm)	Waterproof	Weight (KG)
320013	4 x 90° (0-360°)	0.05°	± 0.15°	150 x 33 x 60	X	0.280
320016	4 x 90° (0-360°)	0.05°	± 0.15°	150 x 33 x 60	✓	0.295

Universal Bevel Protractors and Protractors

★★★★★ SILVER-LINE® Universal Bevel Protractor

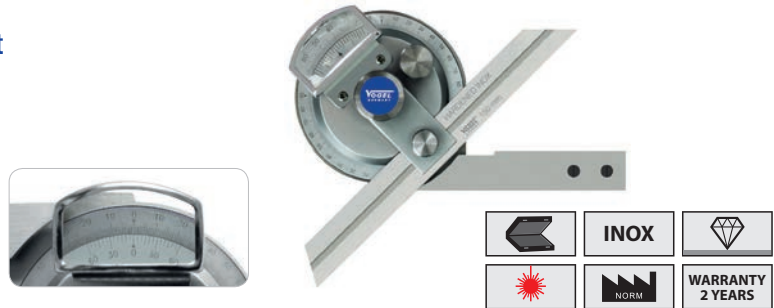
- top quality, for calibration purpose
- stainless, hardened and fine ground
- scales matt chrome finish
- parallaxfree reading by vernier, with large magnifying lens
- with fine adjustment



ART No	length of blades mm		angle graduation	KG	ART No CC
320121	150	4 x 90°	1/12° = 5'	0.710	3294021
320122	200	4 x 90°	1/12° = 5'	0.725	3294021
320123	300	4 x 90°	1/12° = 5'	0.755	3294021
320124	500	4 x 90°	1/12° = 5'	0.790	3294021

★★★★★ BLUE-LINE® Universal Bevel Protractor Set

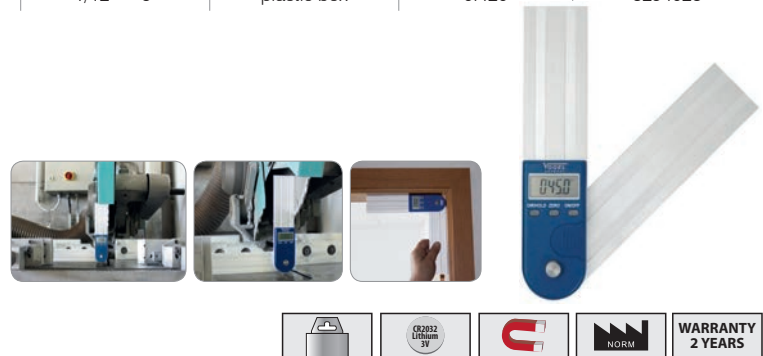
- set with 3 blades in different length
- stainless, hardened and fine ground
- scales matt chrome finish
- parallaxfree reading by vernier, with large magnifying lens
- with fine adjustment



ART No	length of blades mm		angle graduation	packing	KG	ART No CC
321220	150 / 200 / 300 mm	4 x 90°	1/12° = 5'	wooden box	0.765	3294023
321220-K	150 / 200 / 300 mm	4 x 90°	1/12° = 5'	plastic box	0.420	3294023

★★★★★ DIGI PLUS-LINE® Electr. Digital Protractor

- for checking and transferring angles
- large LCD display with clear reading, digit height 10 mm
- blades in anodized aluminium with profile grooves, and embedded magnet strips
- On/Off button and data hold function, with fixing screw
- 180° rotating display, by pressing function button
- zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 2002093), operation manual



ART No				length of blades mm		KG	ART No CC
320021	0 - 360	0.05	0.3	200 x 200	205 x 45 x 30	0.290	3294020
320022	0 - 360	0.05	0.3	300 x 300	305 x 45 x 30	0.415	3294020

★★★★★ BLUE-LINE® Protractor

- with fixing screw
- with half round plate
- special steel, chromed
- scale matt chrome finish
- double graduation from 0-180° in opposite direction









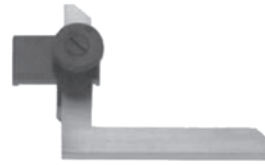
ART No	length of blades mm	arc-ø mm		KG	ART No CC
322541	150	80	0 - 180	0.075	3294511

Accessories and Spare Parts for Universal Protractors

Spare Parts for Electr. Digital Universal Protractors

art.-no. 320150 - 320152

ART N°	 spare blade	ART N°	 spare blade
321250	150	321252	300
321251	200	321254	500
ART N°	angle stop		75/60 x 11 x 6.2
321265			
ART N°	stand with prismatic base		92 x 24.6 x 24.5
321266			
ART N°	data cable Opto RS232 duplex		~ 2,000
2002090			
ART N°	battery 3 V CR 2032		∅ 20 x 3
2002093			



ART N° 321265



ART N° 321266









ART N° 2002090



ART N° 2002093

Spare Parts for Electr. Digital Universal Protractors

art.-no. 320100

ART N°	 spare blade		
320101	150		
320102	200		
320103	300		
ART N°	90° angled adjustment		 0.040
321275		60 x 50 / 15 x 4	
ART N°	angle stop		 0.030
321276		70/40 x 18 x 4	
ART N°	battery 3 V CR 2032		∅ 20 x 3
2002093			
ART N°	USB - Mini-USB (with data key)		
2420192			

ART N° 320101

ART N° 320102

ART N° 320103



ART N° 2002093



ART N° 321275



ART N° 321276









ART N° 2420192



Spare Parts for Universal Protractors

art.-no. 320121 - 320124 and art.-no. 321220

ART N°	 spare blade		
321225	150	0.030	
321226	200	0.045	
321227	300	0.070	
321229	500	0.140	
ART N°	magnifying glass, w/o screws		 0.015
321228		37 x 22	
ART N°	angle stop		 0.030
321230		68 x 38 / 18 x 4	



ART N° 321228



ART N° 321230

Protractors

★★★★★ BLACK-LINE® Protractor

- with fixing screw
- for standard mechanical engineering
- made of Dur-Aluminium, hardened with HRC63
- scratch-resistant, black anodized surface
- laser engraved, clear reading scale



ART No	length of blades mm	arc-ø mm			ART No CC
322511-2	120	80	0 - 180	0.045	3294511
322512-2	150	120	0 - 180	0.065	3294512
322513-2	200	150	0 - 180	0.100	3294513
322514-2	300	200	0 - 180	0.180	3294514
322515-2	500	300	0 - 180	0.410	3294515

★★★★★ DIGI PLUS-LINE® Electr. Digital Bevel Protractor

- for high precision accuracy and safety reading
- LCD display with clear reading, digit height 10 mm
- stainless, hardened and fine ground
- On/Off button, with fixing screw
- zero setting at any position, with data hold function
- reading of values in display by 180° switchable
- incl. 1x 3 V battery (type CR2032, art. no.: 2002093), with operation manual



ART No	length of blades mm	arc-ø mm					CC
320201	150	120	0 - 180	0.05	0.3	0.260	inclusive
320202	200	150	0 - 180	0.05	0.3	0.310	inclusive
320203	300	200	0 - 180	0.05	0.3	0.450	inclusive

★★★★★ DIGI PLUS-LINE® Protractor (Skew Measure)

- for high precision accuracy and safety reading
- LCD display with clear reading, digit height 10 mm
- stainless, hardened and fine ground
- On/Off button, with fixing screw
- zero setting at any position, with data hold function
- reading of the values in the display from 10°-170°
- incl. 1x 3 V battery (type CR2032, art. no.: 2002093), with operation manual



Accessories can be found on page 205



ART No	length of blades mm	arc-ø mm	angle graduation		ART No CC
320581	150	100	10 - 170	0.235	3294511
320582	300	150	10 - 170	0.365	3294512
320583	400	200	10 - 170	0.660	3294513